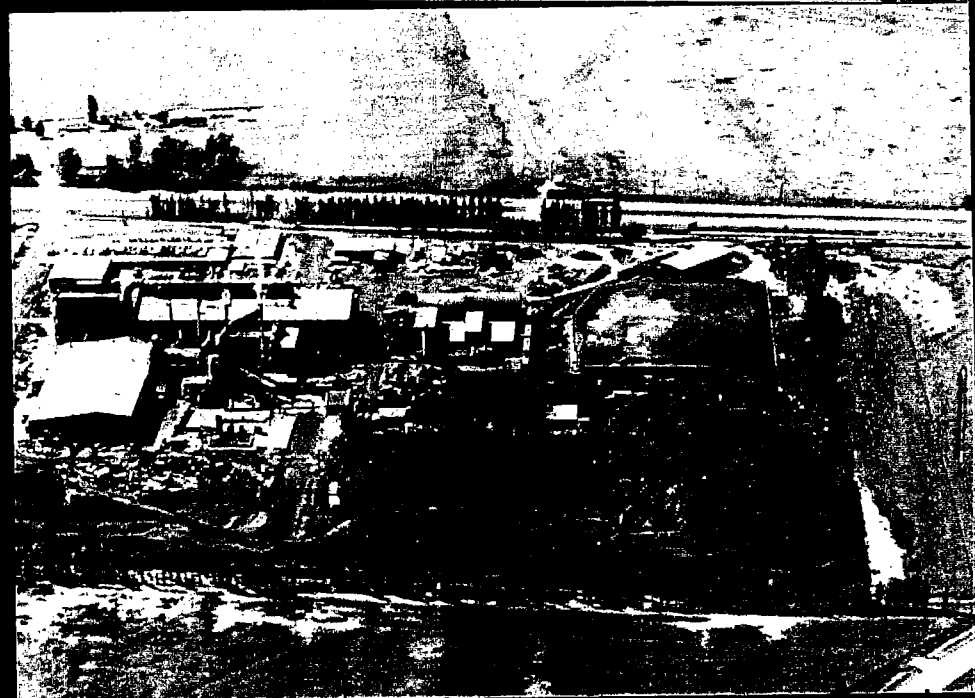
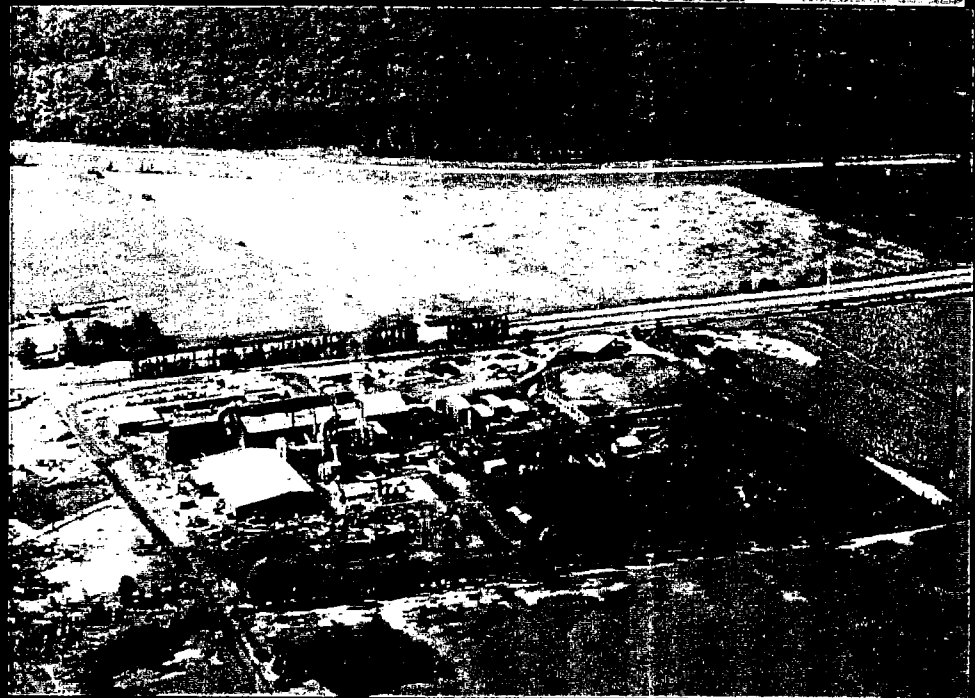
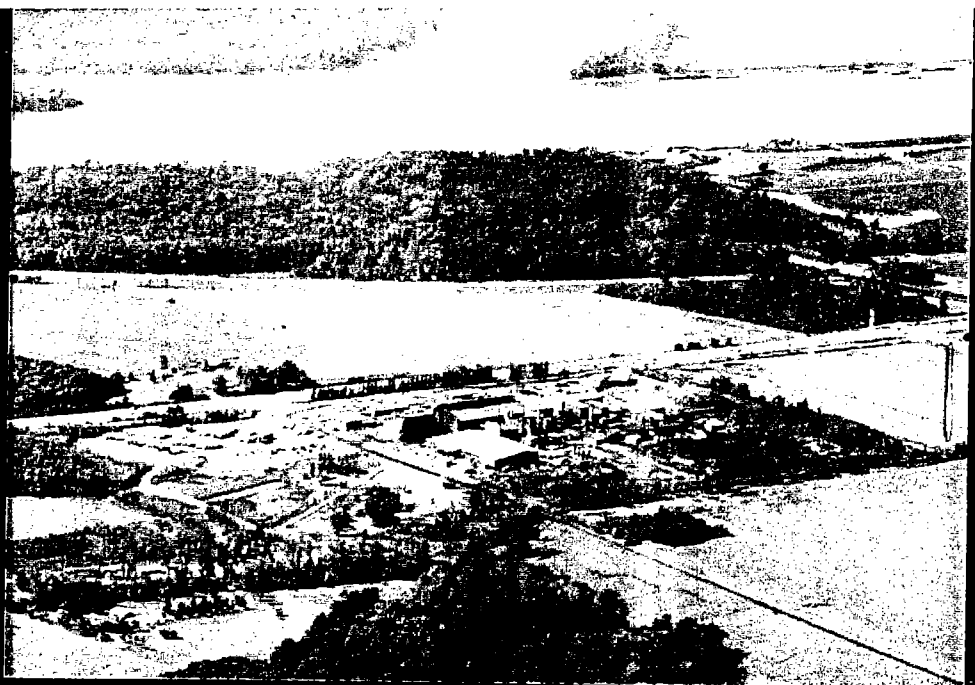
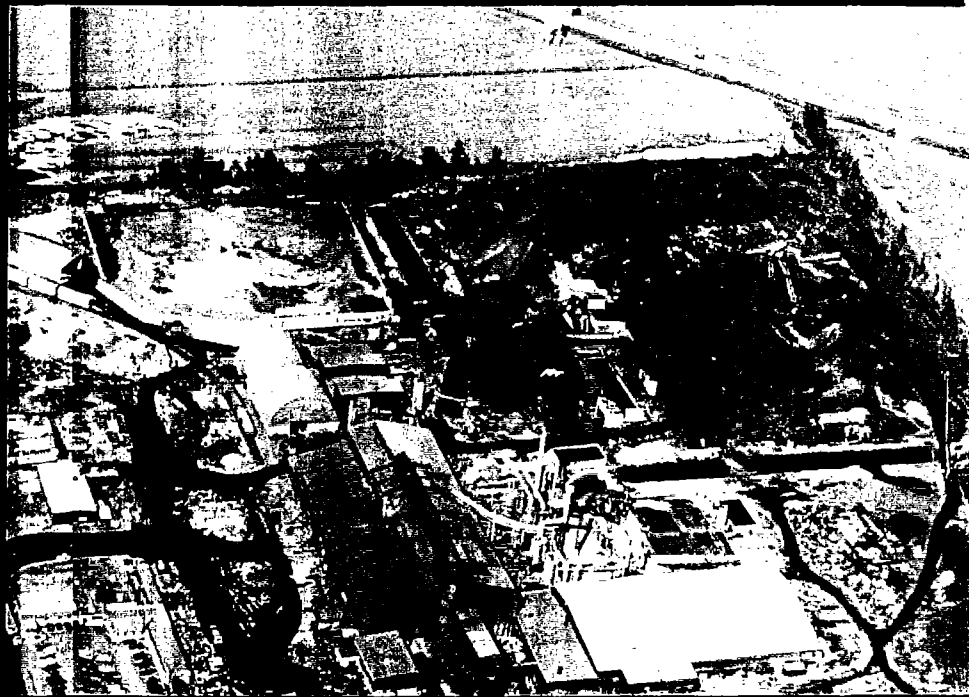
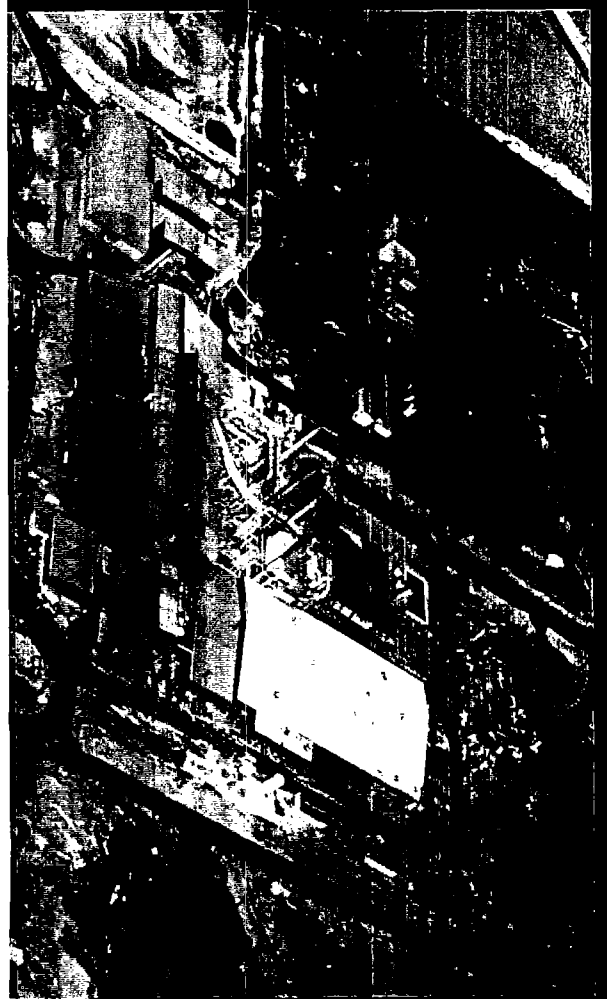
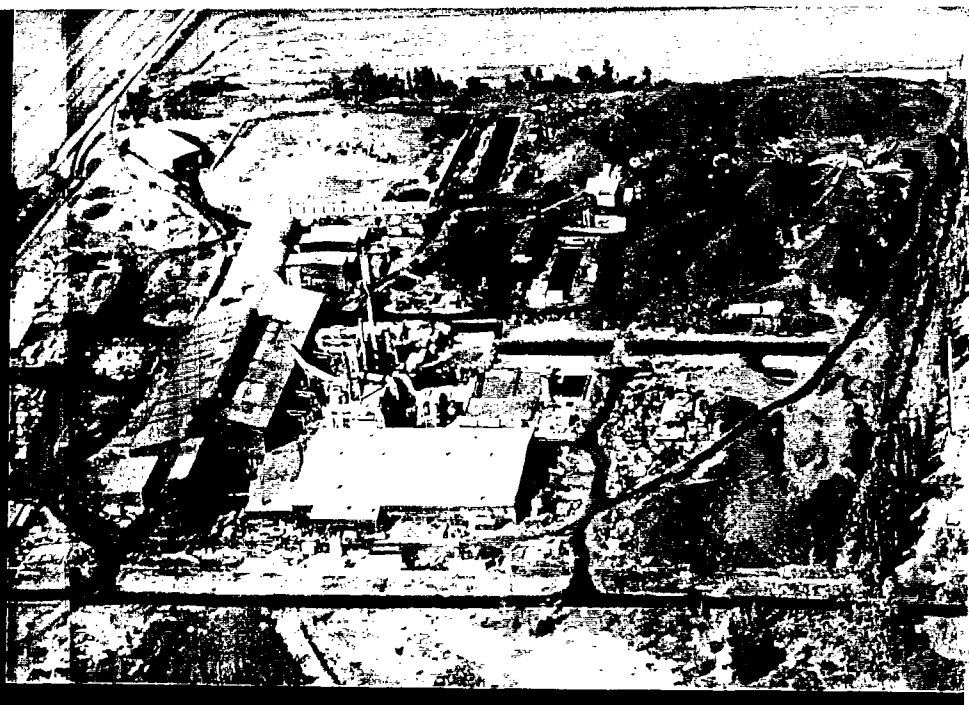


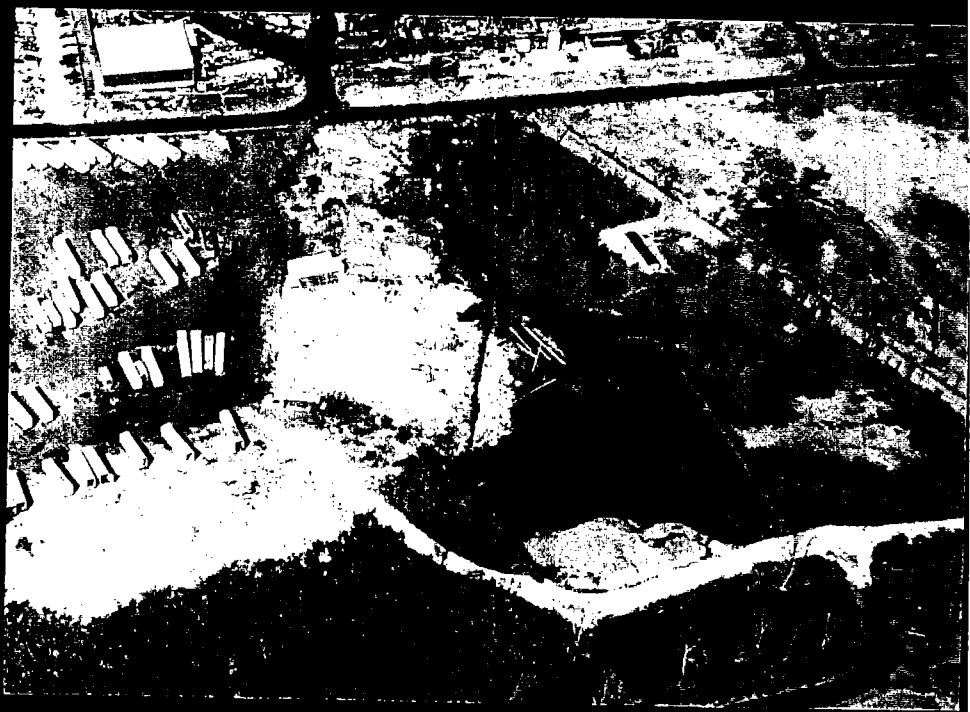
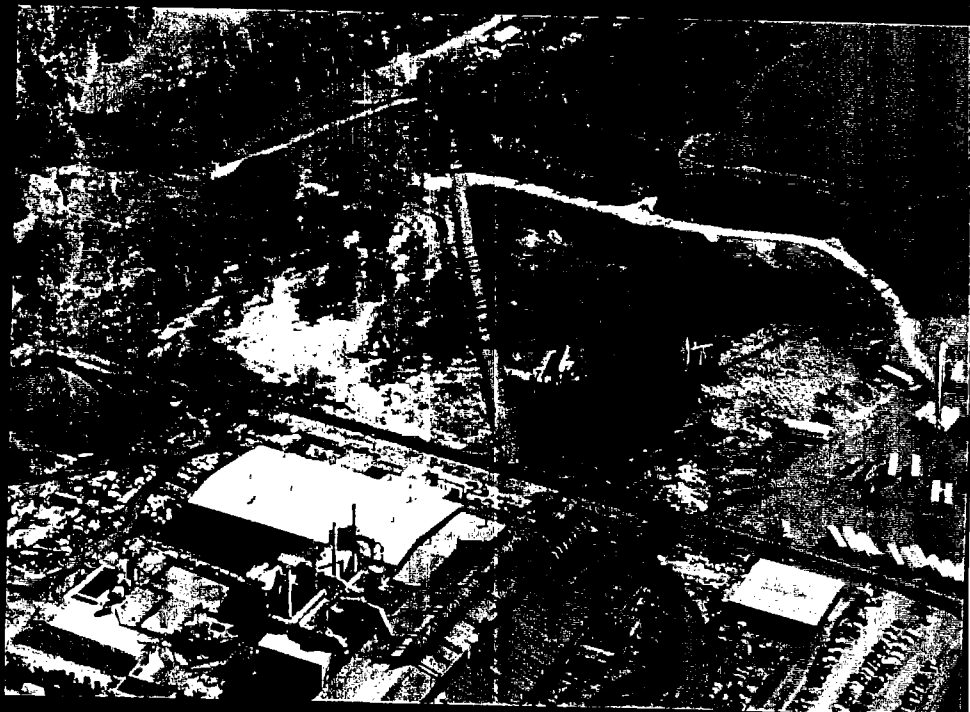
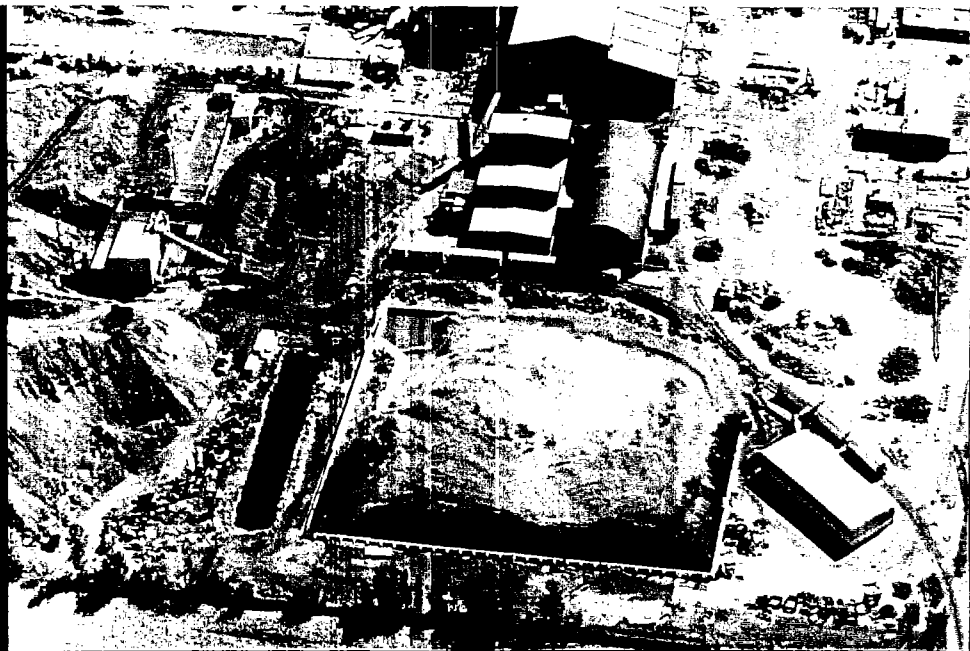
US EPA RECORDS CENTER REGION 5



1000323









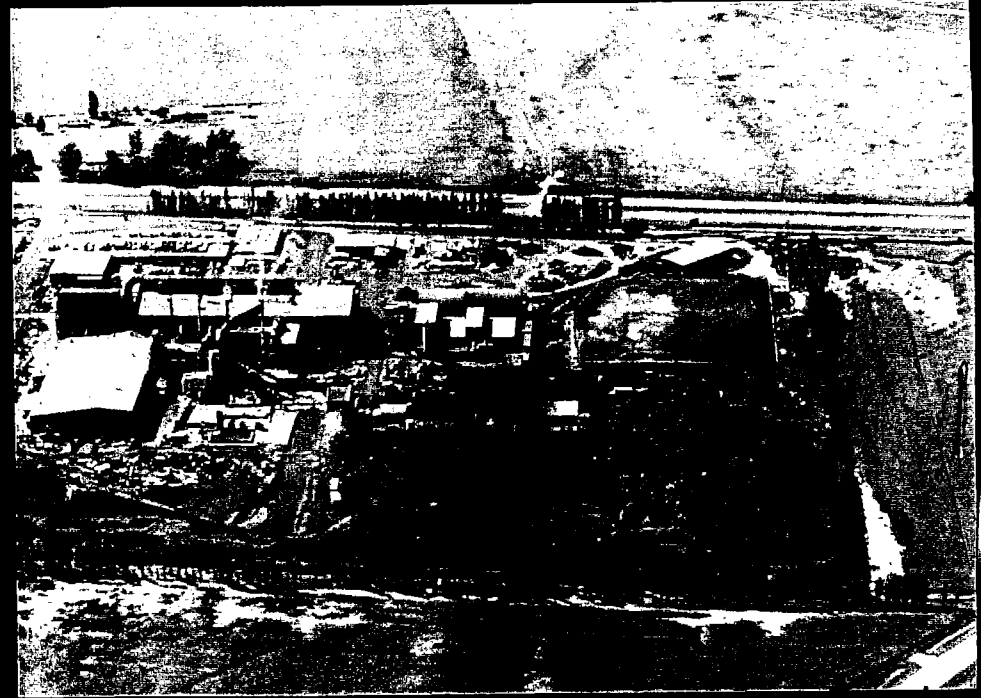
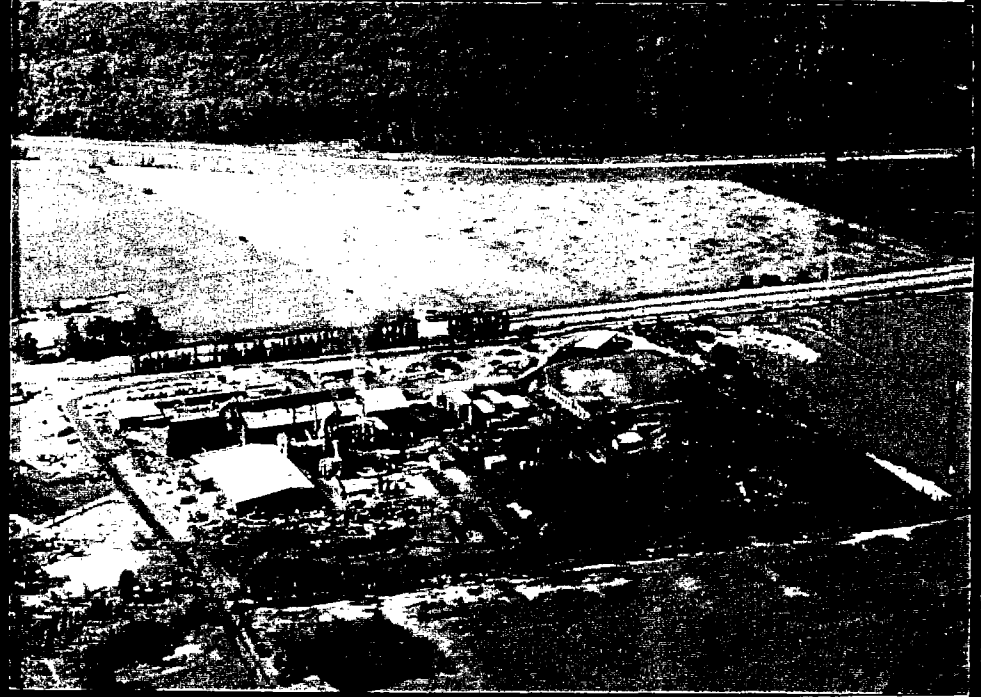
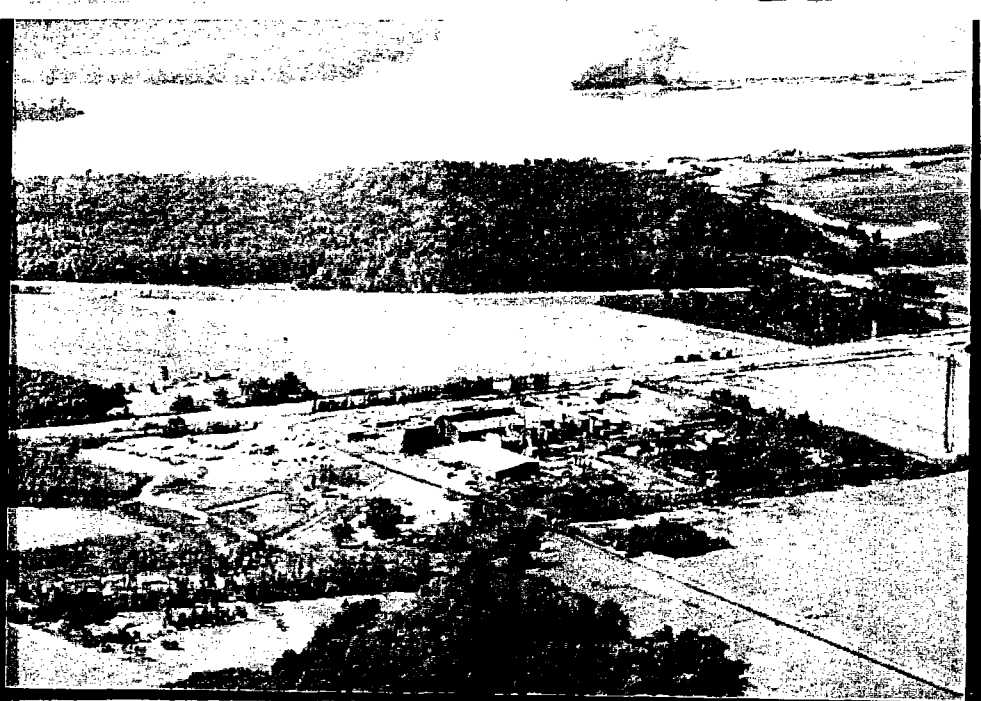




Photo No.: 1
Logbook Photo No.: 1-9
Date: May 28, 1998

Time: 1706
Direction: North

Description: View showing area from which slag sample SL-001 was collected. Slag Hopper with conveyors is visible in background.



Photo No.: 2

Logbook Photo No.: 1-10

Date: May 28, 1998

Time: 1720

Direction: North

Description: View showing area from which slag sample SL-002 was collected. Slag Hopper with conveyors is visible in background.



Photo No.: 3

Logbook Photo No.: 1-11

Date: May 28, 1998

Time: 1731

Direction: North

Description: Overview of pit from which slag sample SL-003 was collected. The sample was collected from darker portions of the pile to the right side of the photograph.



Photo No.: 4

Logbook Photo No.: 1-12

Date: May 28, 1998

Time: 1745

Direction: South

Description: View of slag pile area from which slag sample SL-004 was collected.

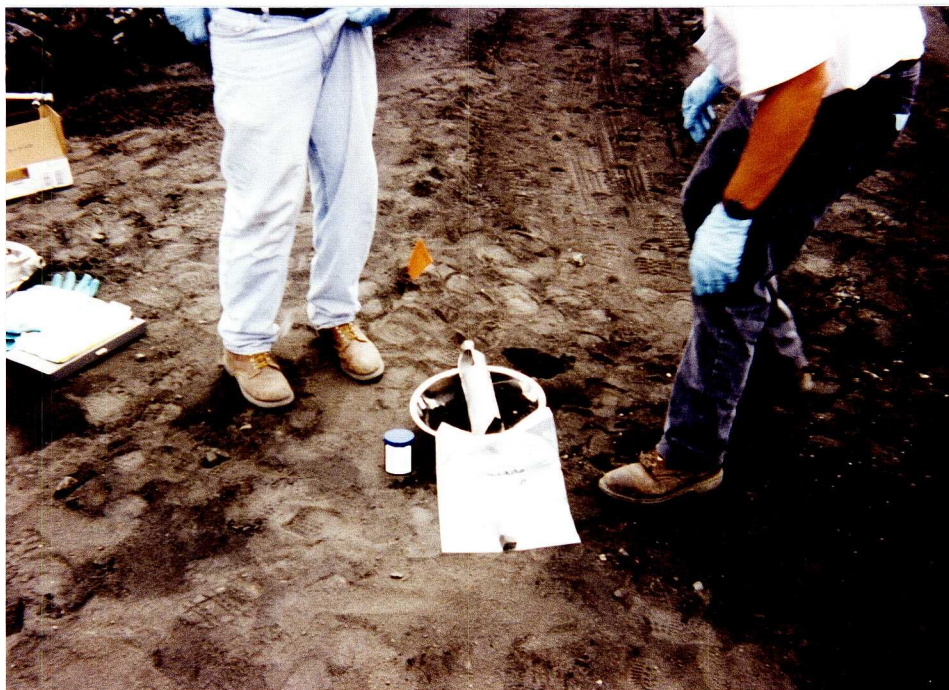


Photo No.: 5
Logbook Photo No.: 2-21
Date: May 29, 1998

Time: 1208
Direction: NA

Description: View of slag sampling location SL-006. Sample was collected from area located approximately one foot to the upper right of stainless-steel bowl.



Photo No.: 6
Logbook Photo No.: 2-16
Date: May 29, 1998

Time: 1046
Direction: NA

Description: View of slag sampling location SL-007.



Photo No.: 7

Logbook Photo No.: 2-18

Date: May 29, 1998

Time: 1106

Direction: West

Description: View of slag sampling location SL-008. Sample was collected in excavated area.



Photo No.: 8

Logbook Photo No.: 1-17

Date: May 29, 1998

Time: 1045

Direction: South

Description: Overview of the area from which slag samples SL-007, SL-008, SL-015, and SL-016 were collected. Facility back hoe was used to excavate areas for sample collection.



Photo No.: 9

Logbook Photo No.: 1-22

Date: May 29, 1998

Time: 1242

Direction: West

Description: View of slag sampling location SL-009 located in excavated area. TechLaw personnel are shown collecting composite sample of slag material from three sides of the excavated area.



Photo No.: 10

Logbook Photo No.: 1-23

Date: May 29, 1998

Time: 1248

Direction: South

Description: View of slag sampling location SL-010 identified by orange flag.



Photo No.: 11

Logbook Photo No.: 1-21

Date: May 29, 1998

Time: 1230

Direction: West

Description: View of slag sampling location SL-011 identified by orange flag directly right of stainless-steel bowl. TechLaw personnel are preparing to collect sample with stainless-steel auger and stainless steel bowl.



Photo No.: 12
Logbook Photo No.: 2-22
Date: May 29, 1998

Time: 1213
Direction: West

Description: View of slag sampling location SL-013 (upper flag) and SL014 (lower flag).



Photo No.: 13

Logbook Photo No.: 2-17

Date: May 29, 1998

Time: 1057

Direction: NA

Description: View of slag sampling location SL-015 located within excavated area.



Photo No.: 14
Logbook Photo No.: 2-19
Date: May 29, 1998

Time: 1115
Direction: East

Description: View of slag sampling location SL-016 located within excavated area.



Photo No.: 15

Logbook Photo No.: 1-18

Date: May 29, 1998

Time: 1123

Direction: Northeast

Description: View of excavating equipment at slag sampling location SL-017.



Photo No.: 16
Logbook Photo No.: 1-19
Date: May 29, 1998

Time: 1142
Direction: Northwest

Description: View of excavation equipment at slag sampling location SL-018.



Photo No.: 17

Logbook Photo No.: 2-20

Date: May 29, 1998

Time: 1153

Direction: West

Description: View of slag sampling locations SL-018, SL-019, and SL-020. SL-018 is visible as far-left excavation; SL-019 is visible as center excavation; and SL-020 is visible as far-right excavation. Sampling locations are identified with orange flags.



Photo No.: 18

Logbook Photo No.: 1-20

Date: May 29, 1998

Time: 1142

Direction: Northwest

Description: Overview of area from which slag samples SL-019 and SL-020 were collected. The orange flag in the foreground marks the location from which SL-020 was collected while the flag (barely visible) in the background marks the sampling location for SL-019.



Photo No.: 19

Logbook Photo No.: 2-23

Date: May 29, 1998

Time: 1217

Direction: South

Description: View of excavated area of slag pile. Pile has notable variability in strata and slag sizes with some variation in slag color and texture.



Photo No.: 20
Logbook Photo No.: 2-10
Date: May 29, 1998

Time: 0833
Direction: South

Description: Overview of Zinc Oxide Bunker.



Photo No.: 21

Logbook Photo No.: 2-11

Date: May 29, 1998

Time: 0833

Direction: Southeast

Description: Overview of Zinc Oxide Bunker.



Photo No.: 22
Logbook Photo No.: 2-12
Date: May 29, 1998

Time: 0833
Direction: West

Description: Overview of Zinc Oxide Bunker.



Photo No.: 23
Logbook Photo No.: 2-15
Date: May 29, 1998

Time: 0855
Direction: South

Description: View of zinc oxide sampling location ZO-001 in the Zinc Oxide Bunker.



Photo No.: 24

Logbook Photo No.: 2-14

Date: May 29, 1998

Time: 0855

Direction: South

Description: View of zinc oxide sampling location ZO-002 in the Zinc Oxide Bunker.



Photo No.: 25

Logbook Photo No.: 2-13

Date: May 29, 1998

Time: 0855

Direction: South

Description: View of zinc oxide sampling location ZO-003 in the Zinc Oxide Storage.



Photo No.: 26

Logbook Photo No.: 3-4

Date: May 29, 1998

Time: 0953

Direction: Northeast

Description: View of front-end loader carrying fresh zinc oxide waste from the filter press from which zinc oxide sample ZO-004 was collected.



Photo No.: 27

Logbook Photo No.: 3-5

Date: May 29, 1998

Time: 0955

Direction: North

Description: View of zinc oxide sampling location ZO-004 in the bucket of the front-end loader. Sample container visible in bucket.



Photo No.: 28

Logbook Photo No.: 3-9

Date: May 29, 1998

Time: 1025

Direction: Southeast

Description: View of No. 1 Baghouse dust collection receptacle from which baghouse dust sample BD-001 was collected.



Photo No.: 29

Logbook Photo No.: 3-6

Date: May 29, 1998

Time: 1015

Direction: Northwest

Description: View of No. 2 Baghouse, also known as the Roof Baghouse, from which baghouse dust sample BD-002 was collected.



Photo No.: 30
Logbook Photo No.: 3-7
Date: May 29, 1998

Time: 1015
Direction: North

Description: View of No. 2 Baghouse, also known as the Roof Baghouse, from which baghouse dust sample BD-002 was collected.



Photo No.: 31

Logbook Photo No.: 3-8

Date: May 29, 1998

Time: 1015

Direction: Northwest

Description: View of No. 2 Baghouse, also known as the Roof Baghouse, from which baghouse dust sample BD-002 was collected. Sample was collected from baghouse "apartment" visible on far-left portion of photograph.



Photo No.: 32
Logbook Photo No.: 3-10
Date: May 29, 1998

Time: 1030
Direction: South

Description: View to the west of the Slag Granulation Plant.



Photo No.: 33

Logbook Photo No.: 3-11

Date: May 29, 1998

Time: 1045

Direction: Northeast

Description: View of Primary Baghouse for the Slag Granulation Plant from which baghouse dust sample BD-003 was collected. Sample collected from baghouse dust collection receptacle visible as green dumpster in photograph.

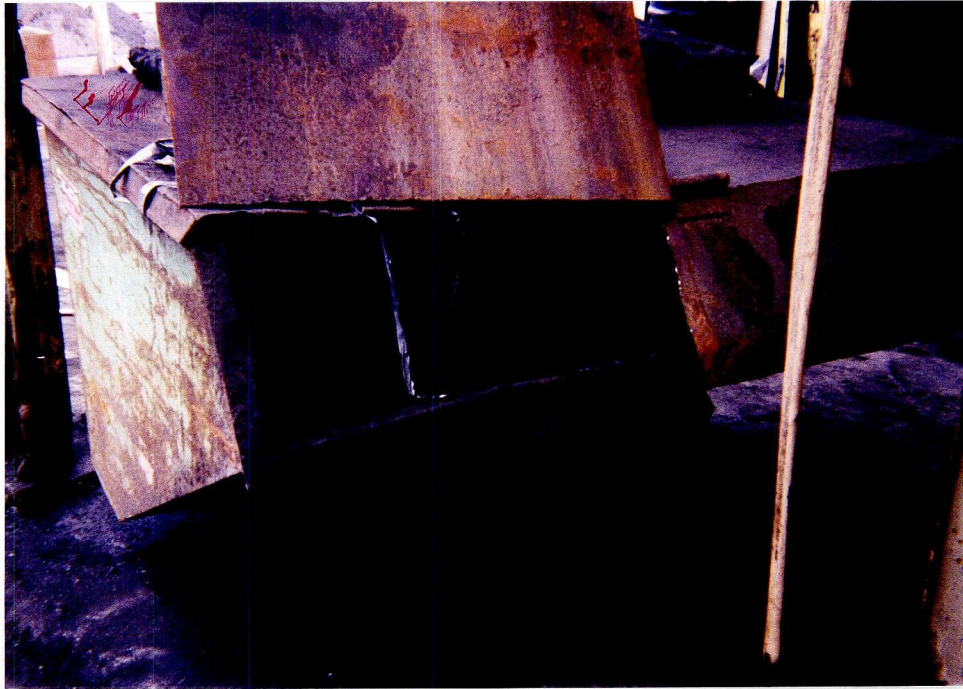


Photo No.: 34

Logbook Photo No.: 3-12

Date: May 29, 1998

Time: 1045

Direction: Northwest

Description: View of baghouse dust collection receptacle from which baghouse dust sample BD-003 was collected.



Photo No.: 35
Logbook Photo No.: 3-13
Date: May 29, 1998

Time: 1100
Direction: Southwest

Description: View of sample collection port from the Secondary Baghouse for the Slag Granulation Plant from which baghouse dust sample BD-004 was collected.



Photo No.: 36

Logbook Photo No.: 1-24

Date: May 29, 1998

Time: 1430

Direction: Northeast

Description: View of bagged refractory brick sample RB-001. Sample was collected from brick sample obtained from pile located on the left portion of the photograph.



Photo No.: 37

Logbook Photo No.: 1-25

Date: May 29, 1998

Time: 1440

Direction: West

Description: View of refractory brick sample RB-002 visible as pieces of brick visible in center of photograph. Refractory brick pile visible in background.



Photo No.: 38

Logbook Photo No.: 2-24

Date: May 29, 1998

Time: 1440

Direction: NA

Description: View of refractory brick sample RB-003 visible as pieces of brick in center of photograph.



Photo No.: 39

Logbook Photo No.: 1-26

Date: May 29, 1998

Time: 1450

Direction: West

Description: View of refractory brick sample RB-004 visible as pieces of brick in lower-center portion of photograph. Chisel used to break the brick is visible resting on the brick sample.



Photo No.: 40
Logbook Photo No.: 1-27
Date: May 29, 1998

Time: 1453
Direction: West

Description: View of refractory brick sample RB-005 visible as pieces of brick in center of photograph. Hammer used with chisel to break brick is visible in photograph.



Photo No.: 41

Logbook Photo No.: 2-1

Date: May 28, 1998

Time: 1002

Direction: Southwest

Description: View of soil sampling location SS-001 identified with orange flag in center of photograph.



Photo No.: 42

Logbook Photo No.: 2-2

Date: May 28, 1998

Time: 1034

Direction: Southwest

Description: View of soil sampling location SS-002 identified with orange flag in center of photograph.



Photo No.: 43

Logbook Photo No.: 2-3

Date: May 28, 1998

Time: 1044

Direction: Southwest

Description: View of soil sampling location SS-003 identified with orange flag in center of photograph.



Photo No.: 44

Logbook Photo No.: 2-4

Date: May 28, 1998

Time: 1110

Direction: Southwest

Description: View of soil sampling location SS-004 identified with orange flag in center of photograph.



Photo No.: 45

Logbook Photo No.: 2-5

Date: May 28, 1998

Time: 1125

Direction: West

Description: View of soil sampling location SS-005 identified with orange flag in bottom-right portion of photograph.



Photo No.: 46
Logbook Photo No.: 2-6
Date: May 28, 1998

Time: 1134
Direction: South

Description: View of soil sampling location SS-006 identified with orange flag in center of photograph.



Photo No.: 47

Logbook Photo No.: 2-7

Date: May 28, 1998

Time: 1145

Direction: East

Description: View of soil sampling location SS-007 identified with orange flag in right-center portion of photograph.



Photo No.: 48

Logbook Photo No.: 2-8

Date: May 28, 1998

Time: 1156

Direction: North

Description: View of soil sampling location SS-008 visible as disturbed soil area located approximately one foot to the right of tan storage tote.



Photo No.: 49

Logbook Photo No.: 1-13

Date: May 28, 1998

Time: 1825

Direction: West

Description: View of soil sampling location SS-009 identified with orange flag in center of photograph.



Photo No.: 50
Logbook Photo No.: 1-14
Date: May 28, 1998

Time: 1827
Direction: North

Description: View of soil sampling location SS-010 identified with orange flag to the right of the surface water in the lower-left portion of the photograph.



Photo No.: 51
Logbook Photo No.: 1-15
Date: May 28, 1998

Time: 1840
Direction: West

Description: View of soil sampling location SS-011.



Photo No.: 52

Logbook Photo No.: 2-9

Date: May 28, 1998

Time: 1855

Direction: Southwest

Description: View of soil sampling location SS-012 located northeast of the facility.
Sample collected from disturbed soil area visible in center of photograph.
Chemetco facility fence is visible in background.



Photo No.: 53

Logbook Photo No.: 1-1

Date: May 28, 1998

Time: 1016

Direction: Southeast

Description: View of area within Long Lake from which surface water sample SW-001 and co-located sediment sample SD-001 were collected.



Photo No.: 54

Logbook Photo No.: 1-2

Date: May 28, 1998

Time: 1107

Direction: Southeast

Description: View of area within Long Lake from which surface water sample SW-002 and co-located sediment sample SD-002 were collected.



Photo No.: 55

Logbook Photo No.: 1-4

Date: May 28, 1998

Time: 1210

Direction: South

Description: View of area within Long Lake from which surface water sample SW-003 and co-located sediment sample SD-003 were collected.



Photo No.: 56

Logbook Photo No.: 1-5

Date: May 28, 1998

Time: 1357

Direction: Northeast

Description: View showing area from which the surface water sample SW-004 and co-located sediment sample SD-004 were collected in the wetland area to the south of the facility.



Photo No.: 57
Logbook Photo No.: 1-6
Date: May 28, 1998

Time: 1440
Direction: West

Description: View showing area from which the surface water sample SW-005 and co-located sediment sample SD-005 were collected in the wetland area to the south of the facility. Samples were collected from area identified with orange flag in the left-center portion of the photograph.



Photo No.: 58

Logbook Photo No.: 1-7

Date: May 28, 1998

Time: 1523

Direction: East

Description: View showing area from which the surface water sample SW-006 and co-located sediment sample SD-006 were collected in the wetland area to the south of the facility.



Photo No.: 59
Logbook Photo No.: 3-1
Date: May 28, 1998

Time: 1710
Direction: East

Description: View showing facility's stormwater and non-contact cooling water pond from which surface water sample SW-007 and co-located sediment sample SD-007 were collected.



Photo No.: 60

Logbook Photo No.: 3-2

Date: May 28, 1998

Time: 1711

Direction: Southwest

Description: View showing facility's stormwater and non-contact cooling water pond located directly west of sample locations SW-007 and SD-007.



Photo No.: 61

Logbook Photo No.: 3-3

Date: May 28, 1998

Time: 1711

Direction: Southeast

Description: View showing facility's stormwater and non-contact cooling water pond (left) from which samples SW-007 and SD-007 were collected.



Photo No.: 62

Logbook Photo No.: 1-16

Date: May 28, 1998

Time: 1850

Direction: West

Description: View showing area from which the surface water sample SW-008 and co-located sediment sample SD-008 were collected in a slag pile runoff area to the east of the facility. Samples were collected in area identified with orange flag in center of photograph. Slag is visible pressing against the facility's fence in the background. Visible surface water flow from the slag pile is seen in the background. Horiba Water Quality Checker is visible in foreground.



Photo No.: 63
Logbook Photo No.: 1-3
Date: May 28, 1998

Time: 1135
Direction: Southeast

Description: View of area from which background soil sample BK-001 was collected in the wetland area south of the facility.



Photo No.: 64
Logbook Photo No.: 2-25
Date: May 29, 1998

Time: 1610
Direction: South

Description: View of area from which background soil sample BK-002 was collected in the yard of residence located to the south of the facility.



Photo No.: 65

Logbook Photo No.: 2-26

Date: May 29, 1998

Time: 1620

Direction: South

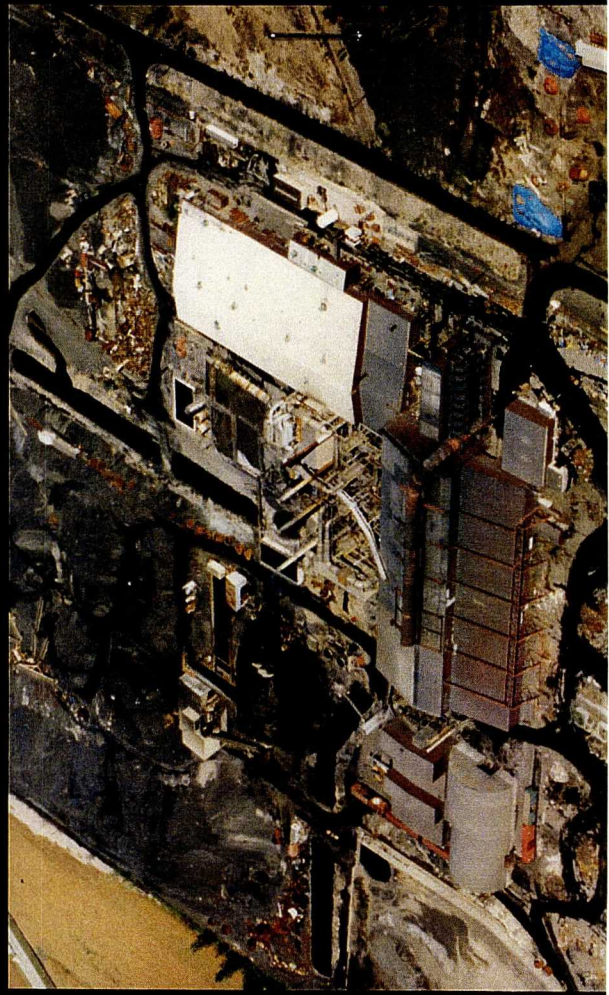
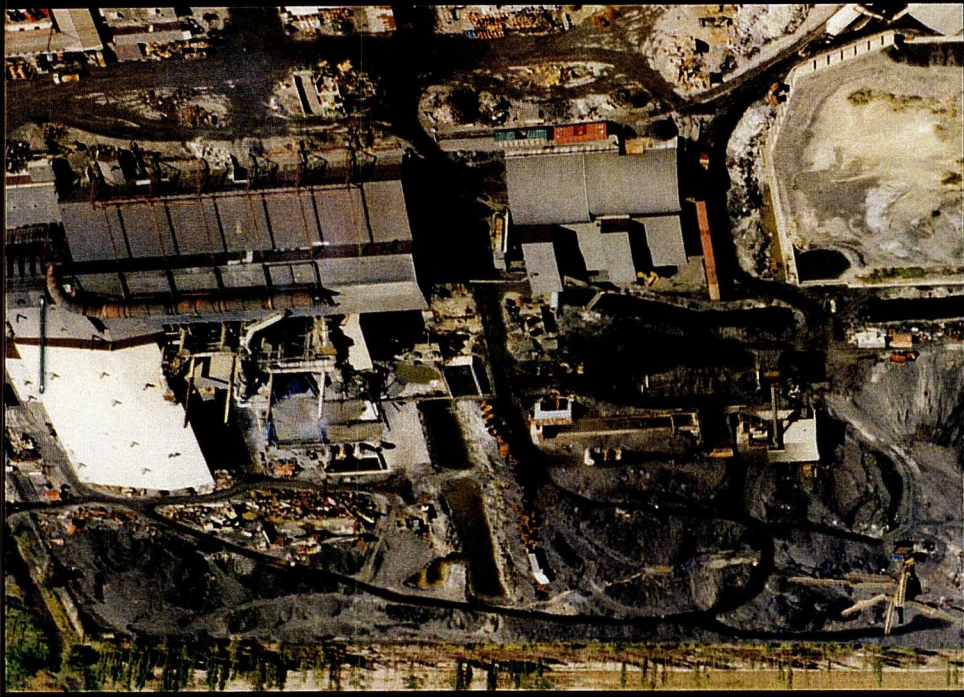
Description: View of area from which background soil sample BK-003 was collected in the yard of residence located to the south of the facility.



Photo No.: 66
Logbook Photo No.: 1-8
Date: May 28, 1998

Time: 1610
Direction: East

Description: View of collection of equipment blank sample SD-306 from decontaminated, stainless-steel, hand auger head. Deionized water is being poured over the auger head and collected in a 1-liter, plastic container for RCRA total metals analyses.

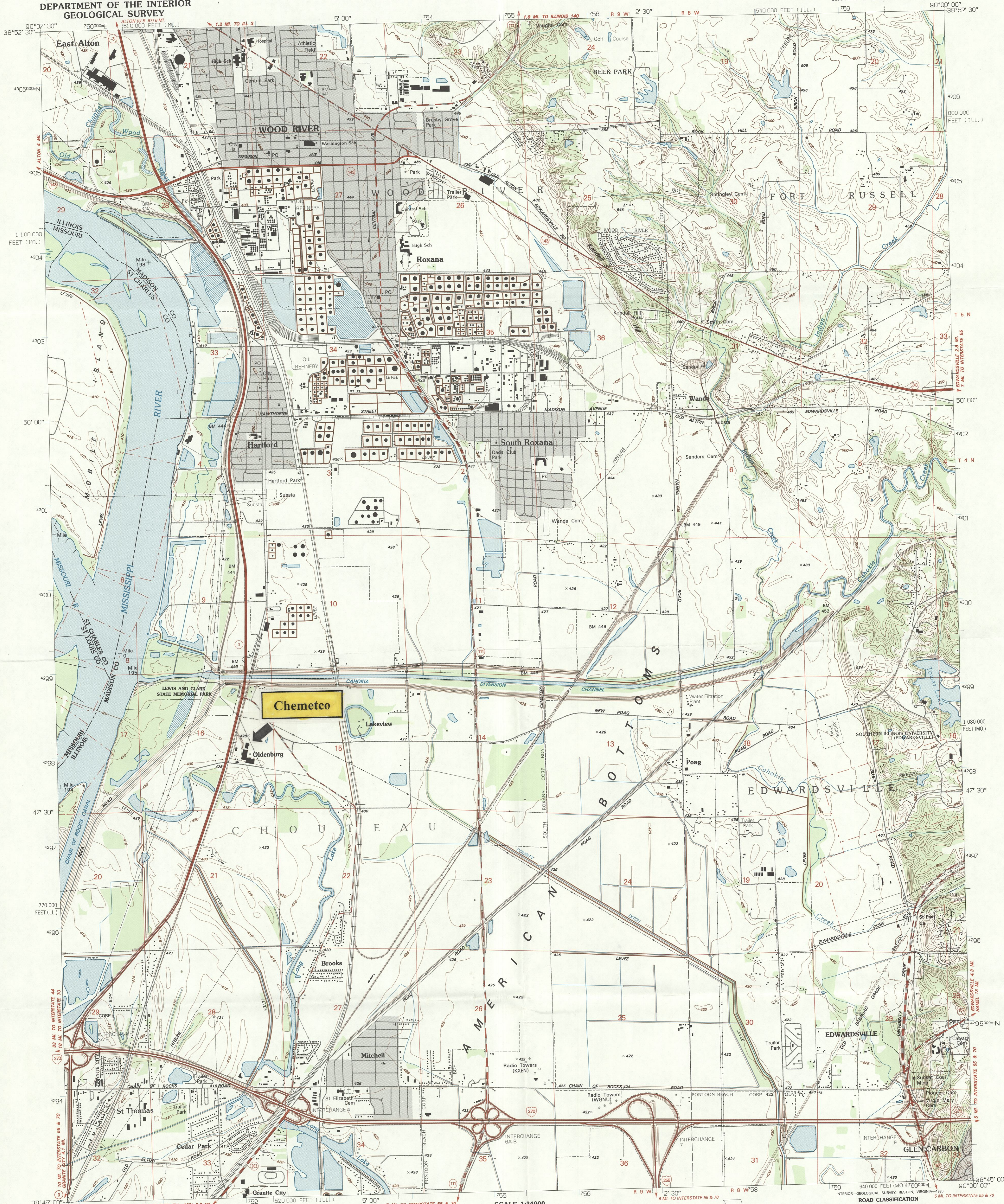






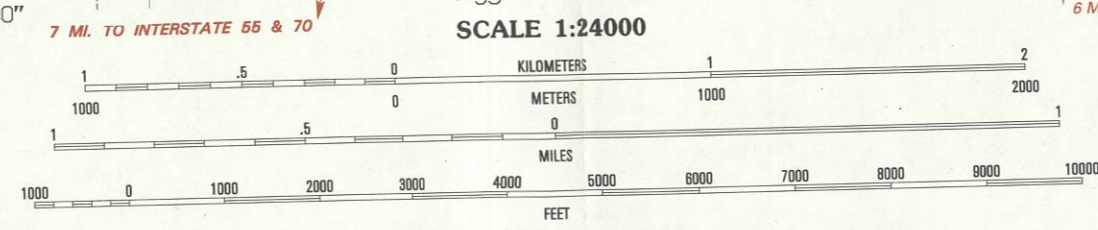
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WOOD RIVER QUADRANGLE
ILLINOIS-MISSOURI
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 ALTON 15' QUADRANGLE



Produced by the United States Geological Survey
Control by USGS and NOS/NOAA
Topography by photogrammetric methods from aerial photographs taken 1947-48 and planimetric surveys 1947-48. Revised from aerial photographs taken 1988. Field checked 1988. Map edited 1994
Universal Transverse Mercator projection
10,000-foot grid ticks: Illinois coordinate system, west zone and Missouri coordinate system, east zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue
1927 North American Datum (NAD 27)
North American Datum of 1983 (NAD 83) is shown by dashed corner ticks. The values of the shift between NAD 27 and NAD 83 for 7.5-minute intersections are obtainable from National Geodetic Survey NADCON software
There may be private inholdings within the boundaries of the National or State reservations shown on this map
Gray tint indicates areas in which only landmark buildings are shown

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DECLINATION AT CENTER OF SHEET



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QUADRANGLE LOCATION

1	2	3
4	5	6
7	8	9

ADJOINING 7.5' QUADRANGLE NAMES

Primary highway
hard surface
Secondary highway
hard surface
Light-duty road, hard or
improved surface
Unimproved road
Interstate Route
U.S. Route
State Route

WOOD RIVER, ILL.-MO.
SE/4 ALTON 15' QUADRANGLE
38090-G1-TF-024
1994
DMA 2961 I SE - SERIES Y863